

EPA United States Environmental Protection Agency Washington, DC 20460 Work Assignment						Work Assignment Number 3-01				
						<input type="checkbox"/> Other <input type="checkbox"/> Amendment Number:				
Contract Number EP-D-11-006			Contract Period 04/29/2011 To 03/31/2014 Base Option Period Number 2			Title of Work Assignment/SF Site Name Mobile Source Emissions				
Contractor EASTERN RESEARCH GROUP, INC.					Specify Section and paragraph of Contract SOW SOW: Section II. K					
Purpose: <input checked="" type="checkbox"/> Work Assignment <input type="checkbox"/> Work Assignment Close-Out <input type="checkbox"/> Work Assignment Amendment <input type="checkbox"/> Incremental Funding <input type="checkbox"/> Work Plan Approval						Period of Performance From 04/01/2013 To 03/31/2014				
Comments: This is the initiation of a work assignment for the Option II period. Hours have been authorized for the work plan and also for work to begin (175 hours). The contractor is to propose hours for the entire Statement of Work (attached). This work does not duplicate any work previously performed or is currently being performed.										
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SFO <input type="checkbox"/> (Max 2)										
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Work Plan / Cost Estimate Approvals										
Contractor WP Dated: Cost/Fee: LOE:										
Cumulative Approved: Cost/Fee: LOE:										
Work Assignment Manager Name Laurel Driver <div style="display: flex; justify-content: space-between;"> <div>_____ (Signature)</div> <div>_____ (Date)</div> </div>							Branch/Mail Code: Phone Number 919-541-2859 FAX Number:			
Project Officer Name Karen C. Watson <div style="display: flex; justify-content: space-between;"> <div>_____ (Signature)</div> <div>_____ (Date)</div> </div>							Branch/Mail Code: Phone Number: 919-541-3114 FAX Number:			
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Contracting Official Name Rodney-Daryl Jones <div style="display: flex; justify-content: space-between;"> <div>_____ (Signature)</div> <div>_____ (Date)</div> </div>							Branch/Mail Code: Phone Number: 919-541-3112 FAX Number:			

Statement of Work

I. Title: Mobile Source Emission Inventory Development FY13 –ERG
Contractor Name: Eastern Research Group
Contract #: EP-D-11-006
WA #: 3-01

II. Work Assignment Manager (WAM):

WAM Name: Laurel Driver
U.S. Environmental Protection Agency
US EPA OAQPS (C339-02)
109 TW Alexander Drive
RTP, NC 27711
Phone: (919) 541-2859
Fax: (919) 541-0684

Alt. WAM Name: Roy Huntley
Environmental Engineer
U. S. Environmental Protection Agency
US EPA OAQPS (C339-02)
109 TW Alexander Drive
RTP, NC 27711
Phone: (919) 541-1060
Fax: (919) 541-0684

III. Background:

The Emission Inventory and Analysis Group (EIAG) annually produces the National Emission Inventory (NEI). These data are needed by states, tribal, and local agencies to evaluate emissions trends in each State and to compare emission trends between geographic areas. The NEI is also used as a basis for various EPA modeling and regulatory analyses. The NEI uses the Emission Inventory System (EIS), that aids in the collection and distribution of inventory information.

The purpose of this work assignment is to continue support on the NEI, particularly on work related to the mobile sources sector of the NEI. This work assignment will assist in inventory preparation and distribution methods that evolve in the EIS development process.

IV. Description and Tasks:

Task #1: Work Plan

The Contractor shall develop a new work plan. The Contractor shall hold conference calls with the WAM on a regular basis after approval of the work plan to plan and review progress of this WA.

Task #2: Complete unfinished work under previous WA 2-04

The contractor shall complete any work under previous WA that was unfinished due to schedule delays or WAM directive.

Task #3: Revise and QA County Databases (CDB) for MOVE input.

Under this task the contractor shall compile:

1. Revised representative county CDBs. EPA is reviewing the representative counties used to expedite MOVES model runs.
2. CDBs submitted by state and local agencies after the 1/8/2013 cut off.
3. CDBs the contractor created in conjunction with Texas and other agencies under WA2-04.

The contractor shall compile these CDBs and perform QA steps identified under WA 2-04 for MOVES modeling. The contractor shall deliver 1) representative county CDBs and 2) entire country's CDBs for MOVES modeling.

Task #4: Revise vehicle population files

The contractor shall revise the VPOP data file for 2011 under direction from EPA's Office of Transportation and Air Quality and deliver revised file for 2011 MOVES/SMOKE-MOVES modeling.

Task #5: 2011 NMIM NONROAD runs for additional states or counties

The contractor shall use National County Database (NCD) files submitted by state and local agencies after the 1/8/2013 cut off and run NMIM/NONROAD to revise 2011 NEI. This task assumes four additional states.

Task #6: NONROAD model runs via NMIM

The contractor shall prepare national NMIM NONROAD emissions for three base years (to be determined) for 50 US states and Puerto Rico and US Virgin Isles. The contractor shall deliver monthly emissions in SMOKE format as specified by the WAM. The contractor shall document run parameters for approval prior to run, using a template supplied by the WAM. The contractor

shall provide documentation for the 2011 NEI on that base year's run. This task includes equipment rental for these runs.

Task #7: Commercial Marine Revisions

The contractor shall revise CMV estimates for 2011 with updated ferry, barge, and tug traffic .

Task #8: Documentation

The contractor shall provide concise memorandums of all work performed for 2011 NEI and projected inventory work performed under this work assignment.

Task #9: Information Requests

The contractor shall respond to information requests forwarded from the WAM. Such request may include information on previous base year inventories or future year projections, or methodology questions from inventory customers.

V. Deliverables:

Deliverable	Due Date
Work Plan	20 calendar days after the effective date of the work assignment
Monthly progress reports	Ongoing
Information requests	Ongoing
Task 2: Carry over from previous WA	To be determined
Task 3: 2011 CDB Revisions	To be determined
Task 4: Revise VPOP file	To be determined
Task 5: Revised 2011 NONROAD estimates	To be determined
Task 6: NONROAD emissions for future years	To be determined
Task 7: 2011 CMV Revisions	To be determined
Task 8: Documentation	To be determined

VII. Reporting Requirements:

The Contractor shall provide monthly progress reports in accordance with the terms of the contract. The Contractor shall submit work products in electronic as well as hard copy form. In addition, the Contractor shall deliver to the WAM each draft and final report in electronic format that is readable by windows-based word-processing (Microsoft Word 2007), graphics (Microsoft PowerPoint 2007), spreadsheet (Excel 2007), and database (Access 2007) programs. The Contractor shall also provide electronic copies of reports in PDF format.

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Comments: This work assignment is amended to add the attached subtasks to Task 7. The contractor is to provide a cost estimate only. This amendment is in accordance with CMM 7.3.5.1(D).										
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EP-D-11-006
Eastern Research Group

Work Assignment 3-01

Add the following subtasks to Task 7, Commercial Marine Vessel Revisions:

The contractor shall:

- Disaggregate 2011 Data into vessel types such that they can be retained and evaluated prior to aggregation.
- Revise ferry allocation using terminal count data
- Revise Tug allocation using trip count data
- Revise Deep water allocation – underway using commodity data movement map. (Trim so no activity N of Baton Rouge. Adjust for GL - remove later freight. Reallocate)
- Offshore support: Provide contour map to match air quality modeling grid for gulf coast using ship traffic data provided by Portvision.
- Reallocate 2011 NEIv1 estimates to underway and port shape IDs that reflect the allocation updates above.

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EP-D-11-006

Eastern Research Group

Work Assignment 3-01

Amendment 2

The following additions are hereby added:

Task 7: Add the following subtask:

The contractor shall develop commercial marine vessel methodology revisions using by-vessel activity resources collected via previous work in this WA. The contractor shall prepare a data structure (e.g., spreadsheet format) that can be updated with new calendar year activity to estimate 2014 emissions.

Add Task 10: The contractor shall review Eastern Research Technical Advisory Committee (ERTAC) rail inventory efforts and make any updates to 2011v1 NEI to include ERTAC's most recent findings. The contractor shall update NEI rail facilities with latest Bureau of Transportation additions.

Add Task 11: The contractor shall prepare for 2014NEI Airport estimates by

- Revising generic emissions factors in conjunction with guidance/review by OTAQ
- Preparing data structure to support incorporating landing and take off activity from agency and federal sources into FAA's AEDT model
- Add additional hazardous air pollutant (HAP) profiles available but missing from current airport emissions estimates
- Review Transportation Research Board's guidance for changes in Auxiliary Power Unit usage at airports and incorporate findings in 2014 estimates.